

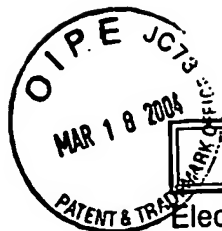


ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	ANTENNA CONFIGURATIONS FOR REDUCED RADAR COMPLEXITY																																																							
<p>Application Number: 10/619020 Confirmation Number: 6396 First Named Applicant: Joseph Pleva Attorney Docket Number: RTN-147CUS Art Unit: 3662 Search string: (4409899 or 5812083 or 6069581 or 6268793 or 6297732 or 6339369).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>4409899</td><td>1983-10-18</td><td>Owen et al.</td><td rowspan="6"></td><td></td><td></td></tr><tr><td></td><td>2</td><td>5812083</td><td>1998-09-22</td><td>Johnson et al.</td><td></td><td></td></tr><tr><td></td><td>3</td><td>6069581</td><td>2000-05-30</td><td>Bell et al.</td><td></td><td></td></tr><tr><td></td><td>4</td><td>6268793</td><td>2001-07-31</td><td>Rossi</td><td></td><td></td></tr><tr><td></td><td>5</td><td>6297732</td><td>2001-10-02</td><td>Hsu et al.</td><td></td><td></td></tr><tr><td></td><td>6</td><td>6339369</td><td>2002-01-15</td><td>Paranjpe</td><td></td><td></td></tr></tbody></table> <p>Signature</p> <table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td></td><td>12/02/2004</td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	4409899	1983-10-18	Owen et al.					2	5812083	1998-09-22	Johnson et al.				3	6069581	2000-05-30	Bell et al.				4	6268793	2001-07-31	Rossi				5	6297732	2001-10-02	Hsu et al.				6	6339369	2002-01-15	Paranjpe			Examiner Name	Date		12/02/2004
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Application Number	10/619,020
Filing Date	July 14, 2003
First Named Inventor	Joseph S. Pleva
Art Unit	2821-2828
Examiner Name	Not Yet Assigned
Attorney Docket Number	RTN-147CUS

Examiner Signature	<i>M. W. Miller</i>	Date Considered	12/02/2004
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Sheet	2	of	2
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10/619,020

Filing Date

July 14, 2003

First Named Inventor

Joseph S. Pleva

Art Unit

~~2821~~ 2828

Examiner Name

~~Not Yet Assigned~~ 2/2/22

Attorney Docket Number

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[illegible]

Examiner Signature	<i>[Signature]</i>
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Date
Considered

12/02/2004

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PTO:SB/08A (02-03)

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Complete if Known

Application Number	10/619.020
Filing Date	July 14, 2003
First Named Inventor	Joseph S. Pieva
Art Unit	2828
Examiner Name	Michael C. Wimer
Attorney Docket Number	RTN-147CUS

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FOREIGN PATENT DOCUMENTS

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		Country Code* Number* Kind Code* (if known)			
<i>MM</i>		GB 1 143 997	02/28/1969	Raytheon Company	
<i>MM</i>		GB 2 315 644	02/04/1998	Motorola	
<i>MM</i>		EP 0 668 627	08/23/1996	Northern Telecom Ltd.	
<i>MM</i>		EP 0 883 208	09/12/1998	Northern Telecom Ltd.	

Examiner Signature	<i>M. Wimer</i>	Date Considered	12/02/2004
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Application Number	10/619,020
Filing Date	July 14, 2003
First Named Inventor	Joseph S. Pleva
Art Unit	2828
Examiner Name	Michael C. Wimer
Attorney Docket Number	RTN-147CUS

[illegible]

Examiner Signature	<i>M. Wimer</i>	Date Considered	3/15/2004
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filed 7/14/2003 10/6/9,020


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	Not Yet Assigned
		Filing Date	Herewith
		First Named Inventor	Joseph S. Pleva
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	RTN-147CUS
Sheet	1	of	2

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS						
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Examiner Signature	<i>M. Zinner</i>	Date Considered	12/02/2004
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Examiner Name	Not Yet Assigned
Attorney Docket Number	RTN-147CUS

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[illegible]

**Examiner
Signature**

Th. Winter

Date
Cons

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filed 7/14/2003

P10/SB/08A (02-03)
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		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	RTN-147CUS
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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
[Signature]	*	US- 4143370	03/06/1979	Yamanaka et al.	
	*	US- 4217582	08/12/1980	Endo et al.	
	*	US- 4308536	12/29/1981	Sims, Jr. et al.	
	*	US- 4348675	09/07/1982	Senzaki et al.	
	*	US- 4543577	09/24/1985	Tachibana et al.	
	*	US- 4549181	10/22/1985	Tachibana et al.	
	*	US- 4622636	11/11/1986	Tachibana	
	*	US- 4673937	06/16/1987	Davis	
	*	US- 4703429	10/27/1987	Sakata	
	*	US- 4901083	02/13/1990	May et al.	
	*	US- 4970653	11/13/1990	Kenue	
	*	US- 4994809	02/19/1991	Yung et al.	
	*	US- 5008678	04/16/1991	Herman	
	*	US- 5014200	05/07/1991	Chundriik et al.	
	*	US- 5023617	06/11/1991	Deering	
	*	US- 5045856	09/03/1991	Paoletti	
	*	US- 5115245	05/19/1992	Wen et al.	
	*	US- 5134411	07/28/1992	Adler	
[Signature]	*	US- 5173859	12/22/1992	Deering	

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filed 7/4/2003

10/6/9,020

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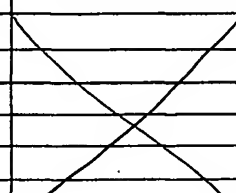





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	*	US- 5929802	07/27/1999	Russell et al.	
	*	US- 5999092	12/07/1999	Smith et al.	
	*	US- 6037860	03/14/2000	Zander et al.	
	*	US- 6069581	05/20/2000	Bell et al.	
	*	US- 5757307	05/26/1998	Nakatani et al.	
	*	US- 5479173	12/26/1995	Yoshioka et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
	*	2 709 834	09/10/1993	FR		
	*	198 50 128	05/28/1999	DE		
	*	EP 0 932 052	07/28/1999	EP		
	*	198 55 400	12/01/1998	DE		
	*	0 484 995	05/13/1992	EPO		
	*	0 784 213	01/13/1996	EPO		

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		Application Number	Not Yet Assigned		
		Filing Date	Herewith		
		First Named Inventor	Joseph S. Pleva		
		Art Unit	Not Yet Assigned		
		Examiner Name	Not Yet Assigned		
Sheet	2	of	2	Attorney Docket Number	RTN-147CUS

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>Ph</i>	.	International Search Report of PCT Application No. PCT/US01/25638 dated May 7, 2002.	
	.	Partial International Search Report of PCT Application No. PCT/US01/25642 dated May 27, 2002.	
	.	International Search Report of PCT Application No. PCT/US01/42065 dated May 14, 2002.	
	.	International Search Report of PCT Application No. PCT/US01/25594 dated May 7, 2002.	
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<i>Ph</i>	.	Theron, Isak Petrus et al. "On Slotted Waveguide Antenna Design at Ka-Band", IEEE Trans. Vol. 32, October 1984, pp. 1425-1426.	

Examiner Signature	<i>M. Wimer</i>	Date Considered	12/02/2004
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		First Named Inventor	Joseph S. Pleva
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet 1 of 3	Attorney Docket Number	RTN-147CUS	

U. S. PATENT DOCUMENTS					
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Jm	*	US- 4962383	10/09/1990	Tresselt	
	*	US- 6097931	08/01/2000	Weiss et al.	
	*	US- 6198434	03/06/2001	Martek et al.	
	*	US- 6252560	06/26/2001	Tanaka et al.	
	*	US- 6091355	07/18/2000	Cadotte, Jr. et al.	
	*	US- 5008678	04/16/1991	Herman	
	*	US- 5325096	06/28/1994	Pakett	
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	*	US- 5675345	10/07/1997	Pozgay et al.	
	*	US- 5929802	07/27/1999	Russell et al.	
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	*	US- 6026347	02/15/2000	Schuster	
	*	US- 6104336	09/15/2000	Curran et al.	
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Jm	*	EP 0 978 729 A2	02/09/2000		
Jm	*	EP 0 642 190 A1	12/30/1993		
Jm	*	EP 0 887 658	12/30/1998		
Jm	*	DE 195 23 693	05/14/1998		
Jm	*	DE 196 32 889	02/19/1998		
Jm	*	0 398 712	05/17/1990		

Examiner Signature	<i>N. Wimer</i>	Date Considered	12/02/2004
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10/6/9, 020

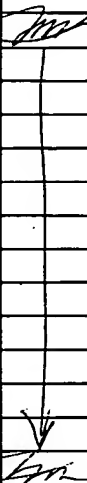
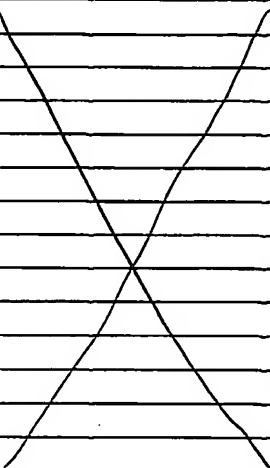
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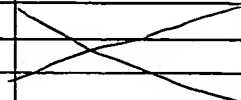

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Application Number	Not Yet Assigned				
Filing Date	Herewith				
First Named Inventor	Joseph S. Pleva				
Art Unit	Not Yet Assigned				
Examiner Name	Not Yet Assigned				
Attorney Docket Number	RTN-147CUS				

Sheet 2 of 3

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	*	US- 5613039	03/18/1997	Wang et al.	
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		US-			
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		Country Code ² Number ³ Kind Code ⁴ (if known)				
	*	1 020 989	07/19/2000			
	*	0 982 173	03/01/2000			

Examiner Signature: <i>M. Wimer</i>	Date Considered:	12/02/2004
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		Filing Date	Herewith
		First Named Inventor	Joseph S. Pleva
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet 3 of 3	Attorney Docket Number	RTN-147CUS	

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
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[Signature]	.	International Search Report of PCT Application No. PCT/US01/25676 dated December 21, 2001.	
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Examiner Signature [Signature]	Date Considered 12/02/2004
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	*	US- 6255984	06/06/2001	Kreppold et al.	
	*	US- 6256573	07/03/2001	Higashimata	
	*	US- 6259495	07/10/2001	Adachi et al.	
	*	US- 6265990	07/24/2001	Isogai et al.	
	*	US- 6269298	07/31/2001	Seto	
	*	US- 6278400	08/01/2001	Cassen et al.	
	*	US- 6317073	11/13/2001	Tamatsu et al.	
	*	US- 6317075	11/13/2001	Heide et al.	
	*	US- 6327530	12/04/2001	Nishimura et al.	
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	*	US- 6330507	12/11/2001	Adachi et al.	
	*	US- 6335705	01/01/2002	Grace et al.	
	*	US- 6345227	02/05/2002	Egawa et al.	
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	*	US- 6366235	04/02/2002	Mayer et al.	
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<i>JP</i>	*	US- 5235316	08/10/1993	Qualizza	
<i>JP</i>	*	US- 5339075	08/16/1994	Abst et al.	

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<i>JP</i>	*	EP 0 978 729 A2	02/09/2000		
	*	EP 0 642 190 A1	12/30/1993		
	*	EP 0 887 658	12/30/1998		
	*	DE 195 23 693	05/14/1998		
<i>JP</i>	*	DE 196 32 889	02/19/1998		
<i>JP</i>	*	0 398 712	05/17/1990		

Examiner Signature <i>Michael J. Pleva</i>	Date Considered 12/02/2004
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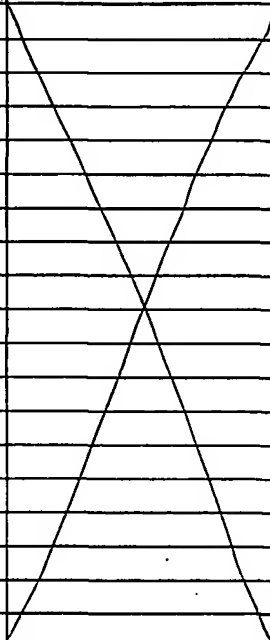

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		Filing Date	Herewith
		First Named Inventor	Joseph S. Pleva
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Attorney Docket Number	RTN-147CJS		
Sheet	2	of	3

10/619,620

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	*	US- 5521579	05/28/1996	Bernhard	
	*	US- 5583495	12/10/1996	Ben Lu Lu	
	*	US- 5654715	08/05/1997	Hayashikura et al.	
	*	US- 5712640	01/27/1998	Andou et al.	
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	*	US- 5508706	04/16/1996	Tsou et al.	
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	*	US- 5670963	09/23/1997	Kubota et al.	
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		*	US- 5767793	06/16/1998	
*		US- 5771007	06/23/1998	Arai et al.	

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<i>[Signature]</i>	*	1 020 989	07/19/2000		<i>[X]</i>
	*	0 982 173	03/01/2000		

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				Application Number	Not Yet Assigned
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				First Named Inventor	Joseph S. Pleva
				Art Unit	Not Yet Assigned
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Sheet	3	of	3	Attorney Docket Number	RTN-147CUS

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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		Sakaibara, Kunio et al. "A Single Layer Slotted Waveguide Array for 22GHz Band Radio System Between Mobile Base Stations", IEEE, 1994, pp. 356-359.	

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Application Number	Not Yet Assigned
Filing Date	Herewith
First Named Inventor	Joseph S. Pleva
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	RTN-147CUS

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
<i>[Signature]</i>	*	US- 6049257	04/11/2000	Hauk	<i>[X]</i>
	*	US- 6057797	05/02/2000	Wagner	
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<i>[Signature]</i>	*	US- 6184819	02/06/2001	Adomat et al.	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

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				Filing Date	Herewith
				First Named Inventor	Joseph S. Pleva
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	RTN-147CUS

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FOREIGN PATENT DOCUMENTS					
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Examiner Signature	<i>M. Winer</i>	Date Considered	12/02/2004
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10/6/99, 020

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
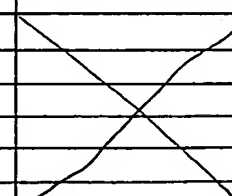

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	*	US- 5805103	09/08/1998	Doi et al.	
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	*	US- 5818355	10/06/1998	Shirai et al.	
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	*	US- 6028548	02/22/2000	Farmer	
	*	US- 6037894	03/14/2000	Pfizenmaier, et al.	
Jm	*	US- 6040796	03/21/2000	Matsugatani et al.	
	*	US- 6043772	03/28/2000	Voiglaender, et al.	

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	*	2 709 834	09/10/1993	FR		
	*	198 50 128	05/28/1999	DE		
	*	EP 0 932 052	07/28/1999	EP		
	*	198 55 400	12/01/1998	DE		
	*	0 484 995	05/13/1992	EPO		
	*	0 784 213	01/13/1996	EPO		

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Sheet	2	of	2
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	.	International Search Report of PCT Application No. PCT/US01/25638 dated May 7, 2002.	
	.	Partial International Search Report of PCT Application No. PCT/US01/25642 dated May 27, 2002.	
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